

INFORMATION DISCLOSURE CITATION PTO-1449				ATTY. DOCKET NO. A-54528-9/WH/D (PO233C6)		SERIAL NO. 08/459,141		
MAY 3 1996 PAT. & TRADEMARK OFF.								
				APPLICANT: BERMAN, et al.				
				FILING DATE June 2, 1995		GROUP 1813 16496		
U.S. PATENT DOCUMENTS								
EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
lp	A	4,593,002	6/3/86	Dulbecco	435	1723	1/11/82	
↓	B	5,314,808	5/24/94	Tiollais et al.	435	69.3		
↓	C	4,855,224	8/8/89	Berman et al.	435	68		
↓	D	4,891,315	1/2/90	Watson et al.	435	69.3		
↓	E	4,818,694	4/4/89	Watson et al.	435	68		
lp	F	4,618,578	10/21/86	Burke et al.	435	68		
lp	G	4,317,811	3/2/82	Bertland et al.	424	89		
lp	H	4,374,127	2/2/83	Larson et al.	424	89		
↓	I	4,442,205	4/10/84	Hamer et al.	435	68		
FOREIGN PATENT DOCUMENTS								
EXAMINER'S INITIALS		PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							Yes	No
	J	0100521	7/27/83	European				
	K	0068693	11/6/82	European				
	L	2949031	6/12/79	Germany				
	M	0060129	9/15/82	European				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
lp	1	Watson et al., "Herpes Simplex Virus Type-1 Glycoprotein D Gene: Nucleotide Sequence and Expression in Escherichia coli" <i>Science</i> , 218:381-384 (October 22, 1982).						
lp	2	Rose et al., "Expression from Cloned cDNA of Cell-Surface Secreted Forms of the Glycoprotein of Vesicular Stomatitis Virus in Eucaryotic Cells" <i>Cell</i> , 30:753-762 (October 1982).						
EXAMINER <i>X. Smith</i>					DATE CONSIDERED 4/17/97			

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U.S. PATENT DOCUMENTS								
EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
FOREIGN PATENT DOCUMENTS								
EXAMINER'S INITIALS		PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							Yes	No
lp	N	0243155	10/28/87	EPA	—	—		
<div style="border-left: 1px solid black; height: 100%; width: 10px;"></div>	O	0133063	2/13/85	EPA	—	—		
	P	1745283	2/2/84	AU	—	—		
	Q	0001365	4/4/79	EPA	—	—		
	R	8302897	9/1/83	PCT (WO)	—	—		
	S	2105344	3/23/83	UK	—	—		
	T	8504587	10/24/85	PCT (WO)	—	—		
	U	0170169	2/5/86	EPA	—	—		
	V	0168662	1/22/86	EPA	—	—		
	W	0101655	2/29/84	EPA	—	—		
	X	73656		EPA				
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EXAMINER <i>L. Smith</i>				DATE CONSIDERED 4/17/97				

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
Lp ↓	3 ✓	Kaufman et al., "Construction of a Modular Dihydrofolate Reductase cDNA Gene: Analysis of Signals Utilized for Efficient Expression," <i>Molecular and Cellular Biology</i> , 3(11):1304-1319 (1982)	
	4 ✓	Chan, "Protective Immunization of Mice with Specific HSV-1 Glycoproteins," <i>Immunology</i> , 49:343-352 (1983).	
↓	5 ✓	Dreesman et al., "Antibody to Hepatitis B Surface Antigen After a Single Inoculation of Uncoupled Synthetic HbsAg Peptides," <i>Nature</i> , 295:158-160 (1982).	
	6 ✓	Wels et al., "An Immunologically Active Chimeric Protein Containing Herpes Simplex Virus Type 1 Glycoprotein D," <i>Nature</i> , 302:72-74 (March 1983).	
	7 ✓	Bittle et al., "Protection against Foot-and-Mouth Disease by Immunization with Chemically Synthesized Peptide Predicted From the Viral Nucleotide Sequence," <i>Nature</i> , 298(1):30-33 (July 1982).	
	8 ✓	Gerin et al., "Chemically Synthesized Peptides of Hepatitis B Surface Antigen Duplicate the d/y Specificities and Induce Subtype-Specific Antibodies in Chimpanzees," <i>PNAS, USA</i> , 80:2365-2369 (April 1983).	
	9 ✓	Muller et al., "Anti-Influenza Response Achieved by Immunization with a Synthetic Conjugate," <i>PNAS, USA</i> , 79:569-573 (January 1982).	
	10 ✓	Frink et al., "Detailed Analysis of the Portion of the Herpes Simplex Virus Type 1 Genome Encoding Glycoprotein C," <i>Journal of Virology</i> , 45(2):634-647 (February 1983).	
	11 ✓	Simonsen et al., "Isolation and Expression of an Altered Mouse Dihydrofolate Reductase cDNA," <i>PNAS, USA</i> , 80:2495-2499 (May 1983).	
	12 ✓	Urdub et al., "Isolation of Chinese Hamster Cell Mutants Deficient in Dihydrofolate Reductase Activity," <i>PNAS, USA</i> , 77m(7):4216-4220 (July 1980).	
	13 ✓	Godenow et al., "Identification of a BALB/c H-2L ^d Gene by DNA-Mediated Gene Transfer," <i>Science</i> , 215(5):677-679 (February 1982).	
Lp ↓	14 ✓	Middleton et al., "Expression of Cloned Herpesvirus Genes: Detection of Nuclear Antigens from Herpes Simplex Virus Type 2 Inverted Repeat Regions in Transfected Mouse Cells," <i>Journal of Virology</i> , 43(3):1091-1101 (September 1982).	
	14 ✓	Lee et al., "Expression of Herpes Simplex Virus Glycoprotein C From a DNA Fragment Inserted into the Thymidine Kinase Gene of this Virus," <i>PNAS, USA</i> , 79:6612-6616 (November 1982).	
↓	15 ✓	Zoler et al., "Scientists Engineer Proteins for Cellular Export," <i>Bio/Technology</i> 146-147 (April 1983)	
EXAMINER X. Smith		DATE CONSIDERED 4/17/97	

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		APPLICANT: BERMAN, et al.	
		FILING DATE June 2, 1995	GROUP 1813 1648
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
hp	16	Spear, P.G., "Cell Membranes and Viral Envelopes," <i>Herpes Viruses</i> , 2:709-150 (1980).	
	17	Balachandran et al., "Protection Against Lethal Challenge of BALB/c Mice by Passive Transfer of Monoclonal Antibodies to Five Glycoproteins of Herpes Simplex Virus Type 2," <i>Infect. Immun.</i> , 37:1132-1137 (1982).	
	18	Dix et al., "Use of Monoclonal Antibody Directed Against Herpes Simplex Virus Glycoproteins to Protect Mice Against Acute Virus-Induced Neurological Disease," <i>Infect. Immun.</i> , 34:192-199 (1982).	
	19	Gething et al., "Molecular and Chemical Basis of Virus Virulence and Immunology," <i>Modern Approaches to Vaccines</i> , (pub. Cold Spring Harbor Laboratories) Proceedings of Meeting at Cold Spring Harbor: 262-268.	
	20	Alt et al., "Synthesis of Secreted and Membrane-Bound Immunoglobulin Mu Heavy Chains is Directed by mRNAs that Differ at Their 3' Ends," <i>Cell</i> , 20:293-301 (1980).	
	21	Early et al., "Two mRNAs Can Be Produced From a Single Immunoglobulin u Gene by Alternative RNA Processing Pathways," <i>Cell</i> , 20:313-319 (1980).	
	22	Cheng et al., "Structure of Gene for Membrane and Secreted Murine IgD Heavy Chains," <i>Nature</i> , 296:410-415 (1982).	
	23	Rogers et al., "Gene Segments Encoding Transmembrane Carboxyl Termini of Immunoglobulin Chains," <i>Cell</i> , 26:19-27 (1981).	
	24	Mertz et al., "Double-Blind, Placebo-Controlled Trial of a Herpes Simplex Virus Type 2 Glycoprotein Vaccine in Persons at High Risk for Genital Herpes Infection," <i>Journal of Infectious Diseases</i> , 161:653-660 (1989).	
✓	25	Schrier et al., "Type-Specific Delayed Hypersensitivity and Protective Immunity Induced by Isolated Herpes Simplex Virus Glycoprotein," <i>J. Immunol.</i> , 130(3):1413-1418 (March 1983).	
	26	Alberts et al., "The Plasma Membrane" <i>Molecular Biology of the Cell</i>, (pub. Garland Publishing Inc.: New York) First Edition, 1983, pp. 264-271.	
	27	Hope et al., "Sulphated Glycoproteins Induced by Herpes Simplex Virus," <i>J. G. Virol.</i>, 58:399-415 (1982).	
	28	Gething et al., "Construction of Influenza Haemagglutinin Genes that Code for Intracellular and Secreted Forms of the Protein," <i>Nature</i>, 300:598-603 (1982).	
	29	Sveda et al., "Cell Surface Expression of the Influenza Virus Hemagglutinin Requires the Hydrophobic Carboxy-Terminal Sequences." <i>Cell</i>, 30:649-656 (1982).	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	30	Holland et al., "Secretion of Soluble Truncated Glycoprotein C Gene Product From Cells Infected with Some HSV-1 Glycoprotein C Mutants," Eighth International Herpes Virus Workshop, Oxford, Abstracts, page 114 (July 31, 1983).	
	31	Cohen et al., "Construction of an Antigenic Determinant of Herpes Simplex virus Glycoprotein D Which Stimulates Production of Neutralizing Antibody," Eighth International Herpes Virus Workshop, Oxford, Abstracts, page 268 (July 31, 1983).	
	32	Cohen et al., International Workshop on Herpes Viruses, Bologna, Abstracts, page 89 (July 27-31, 1981).	
mp	33	Wiley et al., "Structural Identification of the Antibody-Binding Sites of Hong Kong Influenza Haemagglutinin and Their Involvement in Antigenic Variation,," <i>Nature</i> , 289:373-378 (1981).	
	34	Wills et al., "Alterations in the Transport and Processing of Rous Sarcoma Virus Envelope Glycoproteins Mutated in the Signal and Anchor Regions," <i>Journal of Cellular Biochemistry</i>, 23:81-94 (1983).	
	35	Eisenberg et al., "Synthetic Glycoprotein D-Related Peptides Protect Mice Against Herpes Simplex Virus Challenge," <i>J. Virol.</i>, 56:1014-1017 (1985).	
mp	36	Gething et al., "Cell-Surface Expression of Influenza Haemagglutinin from a Cloned DNA Copy of the RNA Gene," <i>Nature</i> , 293:620-625 (1981).	
	37	Lusky et al., "Inhibition of SV40 Replication in Simian Cells by Specific pBR322 DNA Sequences," <i>Nature</i> , 293:79-81 (1981).	
↓	38	Lasky et al., "Protection of Mice From Lethal Herpes Simplex Virus Infection by Vaccination with a Secreted Form of Cloned Glycoprotein D," <i>Bio/Technology</i> , (June 1984).	
	39	Berman, et al., "Protection from Genital Herpes Simplex Virus Type 2 Infection by Vaccination with Cloned Type 1 Glycoprotein D," <i>Science</i>, 227:1490-1492 (1985).	
mp	40	Cohen et al., "Localization and Synthesis of an Antigenic Determinant of Herpes Simplex Virus Glycoprotein D That Stimulates the Production of Neutralizing Antibody," <i>J. Virol.</i> , 49:102-108 (1984).	
↓	41	Dietzschold et al., "Synthesis of an Antigenic Determinant of the HSV gD That Stimulates the Induction of Virus-Neutralizing Antibodies and Confers Protection Against a Lethal Challenge of HSV," 145-149.	
↓	42	Eisenberg et al., "Comparative Structural Analysis of Glycoprotein gD of Herpes Simplex Virus Types 1 and 2," <i>J. Virol.</i> , 35:428-434 (1980).	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
<i>Hp</i>	43	Webster's Ninth New Collegiate Dictionary (1983) p. 1301.	
<i>↓</i>	44	The American Heritage Dictionary, Second college Edition, (1991) p. 384.	
<i>↓</i>	45	Bay Area Bioscience Centre "Northern California's Bioscience Legacy" 1-33 (1991).	
<i>←</i>	46	Berman et al., "Detection of Antibodies to Herpes Simplex Virus with a Continuous Cell Line Expressing Cloned Glycoprotein D," <i>Science</i> , 2:524-527 (1983).	
<i>✓</i>	47	Gibson et al., "Insertion Mutants of Herpes Simplex Virus Have a Duplication of the Glycoprotein D Gene and Express Two Different Forms of Glycoprotein D," <i>J. Virol.</i> , 48(2):396-404 (1983).	
<i>✓</i>	48	Jordan et al., "Detection of Herpes Simplex Virus (HSV) Type-1 IgG and IgM Antibodies by Enzyme-Linked Immunosorbent Assay (ELISA)," <i>American Society of Clinical Pathology</i> , 76:467-471 (1981).	
<i>✓</i>	49	Lee et al., "Location of the Structural Genes for Glycoproteins gD and gE and for Other Polypeptides in the S Component of Herpes Simplex Virus Type 1 DNA," <i>J. Virol.</i> , 43(1):41-49 (1982).	
<i>✓</i>	50	Watson et al., "Characterization of the Herpes Simplex Virus Type 1 Glycoprotein D mRNA and Expression of the Protein in <i>Xenopus</i> Oocytes," <i>Nucleic Acids Research</i> , 11:1507-1522 (1983).	
<i>✓</i>	51	Andonov et al., "The Effect of Killed Antiherpes Vaccines," (pub. Institute of Infectious and Parasitic Diseases in Sophia Bulgaria) p. 608-611.	
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Document No. 533218